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CATALYTIC REARRANGEMENTS OF CYCLONONANE
AND CYCLODECANE IN THE PRESENCE OF A
NICKEL CATALYST. [1963] [10]p. 10 refs.
Order from OTS or SLA \$1.10 63-18752

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DESCRIPTORS: *Methanes, *Octanes, *Cyclohexanes,
*Methyl radicals, *Cyclopentanes, *Hexanes,
*Nickel catalysts, Raman spectroscopy, Kieselguhr,
Benzenes, Catalysis.

Catalytic conversions of cyclononane and cyclodecane
were studied in the presence of nickel upon kieselguhr
and in a stream of hydrogen at 200 and 250 C. The sub-
stances undergo under these conditions a transannular
dehydrocyclization, a direct hydrogenolysis and a
stepwise isomerization of their cycles. The reaction
products of cyclononane were n-nonane, n-octane,
(Chemistry--Organic, TT, v. 10, no. 12) (over)

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2. Title: Cyclononane
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- II. Khromov, S. I.

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The dimethyl ester and the dichloride of 2,4- and 2,5-furandicarboxylic acid were treated with α , ω -glycols having 2 to 6 carbon atoms. The ester-exchange catalysts K_2CO_3 , CeO_2 , and PbO were used at 0.01% by weight of the dimethyl ester. Purified nitrogen was passed through the reaction mixture. Heating of the reactants was conducted at normal pressure at 160°C for 2 hr and at 180°C for 3 hr, and under pressures of 0.05 to 0.5 mm Hg at 180°C for 30 min and at 230°C for 1 hr. Polyesters containing furan rings derived from α , ω -glycols containing an odd number of carbon atoms had lower melting points than those derived from glycols having an even number of carbon atoms. (Chemistry--Organic, TT, v. 5, no. 6) (over)

60-18776

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